



#7

**PATENT**

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Oved ZUCKER

Serial No.: 09/484,376

Group Art Unit: 2876

Filed: January 14, 2000

Examiner: LEE, Diane

For: ISOLATED CONTROL APPARATUS INCORPORATING  
LIGHT CONTROLLED POWER SEMICONDUCTORS**Certificate of EXPRESS MAILING**

I hereby certify that this paper is being deposited with the  
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Date: 01/17/03Express Mail Label No. EV 084125815 USBy : [Signature]  
Marc A. Rossi**RECEIVED**

FEB 01 2005

**OFFICE OF PETITIONS****RESPONSE TO NOTICE OF ABANDONMENT  
AND/OR PETITION TO REVIVE ABANDONED APPLICATION**Assistant Commissioner of  
Patents, Washington, D.C. 20231

Sir:

A Notice of Abandonment was mailed in the above-referenced application on December 17, 2002. Applicant submits the issuance of the Notice of Abandonment was in error and should be withdrawn. Alternatively, if the issuance is deemed proper, then applicant petitions to revive the abandoned application. The facts are as follows.

1. The undersigned attorney of record received a telephone call from the examiner inquiring whether a response had been filed in the above-referenced application. The undersigned attorney of record indicated that a response had been filed, but the application file

BEST AVAILABLE COPY

was not readily available to the undersigned. The examiner's statement provided on the Notice of Abandonment is not correct. The status of the application was communicated to the examiner, but it was not possible to forward a copy of the response prior to the date requiring action by the examiner. The undersigned therefore indicated he understood the examiner might be required to issue the Notice of Abandonment.

2. Subsequent to the receipt of the Notice of Abandonment, the undersigned located the application file and confirmed that a response had been filed on November 20, 2002 with a petition for extension of time. Authorization to charge the deposit account was given for the extension fee. The response was filed with a certificate of mailing. A copy of the response is enclosed herewith. Also enclosed is a copy of the personal docket book of the undersigned indicating the filing of the response.

3. In review the application file, the undersigned noted that a stamped receipt postcard had not been received from the Patent Office. As it is standard practice of the firm of the undersigned to include a receipt postcard with responses sent by certificate of mailing, a search was conducted to determine if the postcard had been received and incorrectly filed. A thorough search of all related files was conducted without discovery of a stamped receipt postcard.

4. The undersigned then checked the deposit account records to determine if the deposit account had been charged the extension fee. The undersigned discovered that no charge had been made against the deposit account.

5. In view of the above, it is believed the response filed on November 20, 2002 was most likely lost by the United States Postal Service. Since a response had been properly filed by certificate of mailing, it is requested that the Notice of Abandonment be withdrawn.

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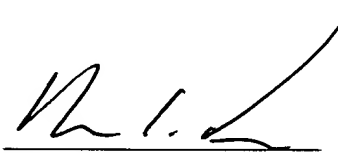
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6. In the event that a determination is made that the issuance of the Notice of Abandonment was proper, then applicant hereby petitions for revival of the abandoned application under 37 C.F.R. §137(a) as being unavoidable. Applicant submits that a proper response was filed as evidenced by the enclosed copy of the response and copy of the docket entry of the undersigned. The abandonment, if so held, was clearly unavoidable on the part of the applicant.

7. The Commissioner is hereby authorized to charge Deposit Account 18-2056 the petition fee and any additional fees that may be required to maintain the pendency of this application.

Respectfully Submitted,

01/17/03  
Date

  
Marc A. Rossi

Attorney Docket: APTI:027

ROSSI & ASSOCIATES  
P.O. BOX 826  
Ashburn, VA 20146-0826  
703-726-6020

2008 324th day - 41 days follow  
Reunion Anniversary (Mexico)

AP 11-027 Among 2 POT Fish Cont. Mined/MAN  
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~~\_\_\_\_\_~~ *Edw. M. Allen*

100-443887-100

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PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Oved ZUCKER

Serial No.: 09/484,376

Group Art Unit: 2876

Filed: January 14, 2000

Examiner: LEE, Diane

For: ISOLATED CONTROL APPARATUS INCORPORATING  
LIGHT CONTROLLED POWER SEMICONDUCTORSCertificate of Facsimile Transmission

I hereby certify that this paper is being transmitted via  
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Trademark Office, Technology Center 2800, at telephone  
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Date: 08/13/03By: M. A. Rossi

Marc A. Rossi

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AUG 13 2003

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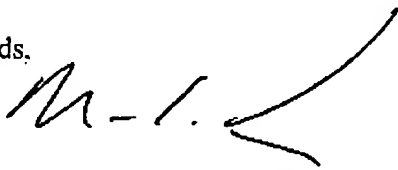
## EXAMINER LEE:

Per our telephone conversation, enclosed please find the following documents:

- |   |          |
|---|----------|
| 1. USPS receipt evidencing delivery of express package to PTO | 1 Page   |
| 2. Copy of response to Notice of Abandonment filed 1/17/03    | 4 Pages  |
| 3. Copy of docket book entry submitted with response          | 1 Page   |
| 4. Copy of amendment filed with USPTO on 11/20/02             | 9 Pages  |
| 5. Copy of Letter to Draftsman filed on 11/20/02              | 2 Pages  |
| Total including this cover sheet                              | 18 Pages |

Please advise if these documents have been entered by calling me at 703-726-6020.

Best regards,





Date: 08/13/2003

Fax Transmission To: MARC ROSSI  
Fax Number: 703-726-6024

Dear MARC ROSSI:

The following is in response to your 08/13/2003 request for delivery information on your Express Mail item number EV084125815US. The delivery record shows that this item was delivered on 01/21/2003 at 06:56 AM in WASHINGTON, DC 20231 to M BOSTON. The scanned image of the recipient information is provided below.

Signature of Recipient:

Delivery Section

*Marc Boston*  
*Marc Boston*

Address of Recipient:

*Patents 20231*

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AUG 13 2003

TECHNOLOGY CENTER 2800

Thank you for selecting the Postal Service for your mailing needs. If you require additional assistance, please contact your local Post Office or postal representative.

Sincerely,

United States Postal Service

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**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

Oved ZUCKER

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20231 for delivery via EXPRESS MAIL on:

Date: 01/17/03Express Mail Label No. EY 084125815 USBy: [Signature]

Marc A. Rossi

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**AUG 13 2003**  
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Patents, Washington, D.C. 20231

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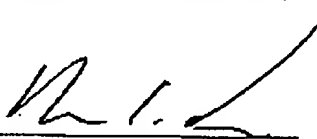
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7. The Commissioner is hereby authorized to charge Deposit Account 18-2056 the petition fee and any additional fees that may be required to maintain the pendency of this application.

Respectfully Submitted,

01/17/03  
Date

  
Marc A. Rossi

Attorney Docket: APTI:027

ROSSI & ASSOCIATES  
P.O. BOX 826  
Ashburn, VA 20146-0826  
703-726-6020

NOVEMBER



WEDNESDAY

2002 324th day 41 days follow  
Revolution Anniversary (Mexico)

*Handwritten:* 11/27/02 11:00 AM F.O.T. F.L. Out M... MB

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**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of

Oved ZUCKER

Serial No.: 09/484,376

Group Art Unit: 2876

Filed: January 14, 2000

Examiner: LEE, Diane

For: ISOLATED CONTROL APPARATUS INCORPORATING  
LIGHT CONTROLLED POWER SEMICONDUCTORS**Certificate of Mailing**

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on:

Date: 11/20/02  
By: Marc A. Rossi**Marc A. Rossi****AMENDMENT WITH PETITION FOR EXTENSION OF TIME**Assistant Commissioner of  
Patents, Washington, D.C. 20231

Sir:

In response to the Office Action issued on May 20, 2002, please amend the above-referenced application as follows:

**IN THE CLAIMS:**

1. (Amended) An apparatus comprising:

an optical triggering circuit at a first location within a substantially benign electronic environment, wherein said optical triggering circuit generates an optical trigger signal;

a power circuit located at a second location remote from the first location within a substantially harsh electronic environment, wherein said power circuit includes at least one photoconductor that is responsive to the optical trigger signal generated by the optical triggering circuit; and

an optical cable coupling the optical triggering circuit to the power circuit;  
wherein the power circuit is directly driven by the transmission of the optical trigger signal from the optical triggering circuit to the power circuit via the optical cable.

2. (Amended) An apparatus as claimed in claim 1, further comprising a control processor coupled to the optical triggering circuit at the first location, wherein the optical triggering circuit is responsive to receipt of a command signal from the control processor to generate the optical trigger signal.

3. (Amended) An apparatus as claimed in claim 1, further comprising a DC motor coupled to an output of the power circuit at the second location.

4. (Amended) An apparatus as claimed in claim 1, wherein the power circuit includes at least one leg including a pair of transistors, each transistor including a base coupled in series to a corresponding photoconductor, wherein activation of the corresponding photoconductor turns on the transistor.

5. (Amended) An apparatus as claimed in claim 4, further comprising a corresponding shunt photoconductor coupled to the base of each transistor, wherein activation of the corresponding shunt photoconductor turns off the transistor.

6. (Amended) An apparatus as claimed in claim 4, wherein at least one corresponding photoconductor comprises a photoconductive diode including a modified electrode structure.

11. (Amended) An apparatus as claimed in claim 5, wherein at least one corresponding shunt photoconductor comprises a photoconductive diode including a modified electrode structure.

16. (Amended) An apparatus as claimed in claim 4, wherein at least one corresponding photoconductor comprises a photoconductively controlled channel transistor.

17. (Amended) An apparatus as claimed in claim 5, wherein at least one corresponding shunt photoconductor comprises a photoconductively controlled channel transistor.

19. (Amended) An apparatus as claimed in claim 4, wherein each corresponding photoconductor can carry a current of at least 20 A for 50 ns.

#### REMARKS

The examiner has raised an objection to Fig. 6 as not being designated as prior art. Applicant submits that Fig. 6 is not prior art, but instead discloses a modified electrode structure of a conventional device. The examiner is directed to page 8, last two lines, which states: "As shown in Fig. 6, the modified electrode structure 52...." (emphasis added). Applicant notes that original Fig. 6 includes a label EG&G C30808E, which was intended to be directed to the underlying base diode upon which the modified electrode structure 52 is formed. The use of the

modified electrode structure 52, however, is not part of the prior art. Accordingly, Fig. 6 should not be labeled as prior art. A proposed drawing correction is enclosed herewith to include an arrow to the base diode associated with the label. Applicant will submit formal drawings incorporating the proposed drawing correction upon the approval of the examiner and the allowance of the claims in this case.

The examiner has raised minor objections to claims 4 and 19. Applicant notes that the examiner makes reference to "a photoconductor" in lines 3 and 1 of claim 4. The term "a photoconductor", however, only appears once in original claim 4 in line 3. Clarification of the objection regarding line 1 is respectfully requested. It is believed the amendment to claim 4 addresses the objection raised by the examiner. Claim 19 has also been amended in view of the examiner's comments.

Claims 4-17 and 19 stand rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the invention. Applicant has amended the claim to make clear that each transistor within a leg is coupled to a corresponding photoconductor. Reconsideration and withdrawal of the amendment is respectfully requested.

Claims 1-3 and 18 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Zucker et al. Zucker et al. is directed to an optically controlled thyristor. Applicant respectfully traverse the rejection.

The present invention is directed to providing isolation between a substantially benign environment in which sensitive electronic components are located, and a substantially harsh electronic environment in which electronically insensitive components (for example motors) are located. In the claimed invention, the sensitive components are isolated from the harsh environment by an optical cable. A key element of the invention is an optically driving power



circuit, wherein the power circuit can be directly driven by light passing through the optical cable. Accordingly, sensitive electronic components can be fully isolated from power components. The invention is particularly applicable in fly-by-wire systems, wherein semiconductor devices ( for example microprocessor controllers) that are sensitive to electromagnetic interference (EMI) can be completely isolated from DC motors used to drive a aircraft control surfaces.

Zucker et al. does not disclose or suggest locating an optical triggering circuit in a benign electronic environment, while placing a power circuit that is driven by the optical triggering circuit in a harsh electronic environment. Instead, Zucker et al. is primarily directed to improvements in thyristor control. There is nothing in Zucker et al. to suggest that the lasers which drive the thyristor be placed separate therefrom in a benign electronic environment. Accordingly, the single Zucker et al. reference cannot be the basis for finding the claims prima facie obvious as required under 35 U.S.C. 103(a).

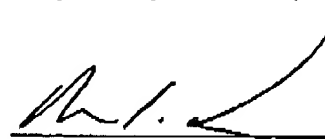
Claims 4-6 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Zucker et al. and Beeston et al., and claims 7-15 and 19 stand rejected as being unpatentable over Zucker et al., Beeston et al, and the admitted prior art. There is nothing in Beeston et al. or the admitted prior art, however, that overcomes the deficiencies of Zucker et al. discussed above. Accordingly, these claims are allowable for the same reasons set forth with respect to claim 1.

Applicant notes that claims 16 and 17 have not been rejected based on prior art. Accordingly, it is believed this claims should be indicated as allowed once the rejection under 35 U.S.C. § 112 is overcome.

The period for response having expired, applicant hereby petitions for a three month extension of time. The Commissioner is hereby authorized to charge the extension fee, along with any additional fees that may be required to maintain the pendency of this application, to Deposit Account 18-2056.

Respectfully submitted,

11/20/02  
Date

  
Marc A. Rossi  
Registration No. 31,923

Attorney Docket: APTJ:027

ROSSI & ASSOCIATES  
P.O. Box 826  
Ashburn, VA 20146-0826  
703-726-6020

## AMENDED CLAIM APPENDIX

1. (Amended) An apparatus comprising:

an optical triggering circuit at a first location within a substantially benign electronic environment, wherein said optical triggering circuit generates an optical trigger signal;

a power circuit located at a second location remote from the first location within a substantially harsh electronic environment, wherein said power circuit includes [a] at least one photoconductor that is responsive to the optical trigger signal generated by the optical triggering circuit; and

an optical cable coupling the optical triggering circuit to the power circuit;

wherein the power circuit is directly driven by the transmission of the optical trigger signal from the optical triggering circuit to the power circuit via the optical cable.

2. (Amended) An apparatus as claimed in claim 1, further comprising a control processor coupled to the optical triggering circuit at the first location, wherein the optical triggering circuit is responsive to receipt of a command signal from the control processor to generate the optical trigger signal.

3. (Amended) An apparatus as claimed in claim 1, further comprising a DC motor coupled to an output of the power circuit at the second location.

4. (Amended) An apparatus as claimed in claim 1, wherein the power circuit includes at least one leg including a pair of transistors, each transistor including a base coupled in series to a corresponding photoconductor, wherein activation of the corresponding photoconductor turns on the transistor.

5. (Amended) An apparatus as claimed in claim 4, further comprising a corresponding shunt photoconductor coupled to the base of each transistor, wherein activation of the corresponding shunt photoconductor turns off the transistor.

6. (Amended) An apparatus as claimed in claim 4, wherein [the] at least one corresponding photoconductor comprises a photoconductive diode including a modified electrode structure.

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Patents, Washington, D.C. 20231 on:

Date: 11/20/02By : [Signature]

Marc A. Rossi

LETTER TO DRAFTSMAN  
WITH PROPOSED DRAWING CORRECTIONAssistant Commissioner of  
Patents, Washington, D.C. 20231

Sir:

Applicant encloses herewith a marked copy of Fig. 6 with proposed changes indicated in red. Applicant will submit formal drawings incorporating the proposed changes upon receipt of the approval of the examiner and the allowance of the claims in this case.

Respectfully Submitted,

11/20/02  
Date[Signature]  
Marc A. Rossi

OFFICIAL

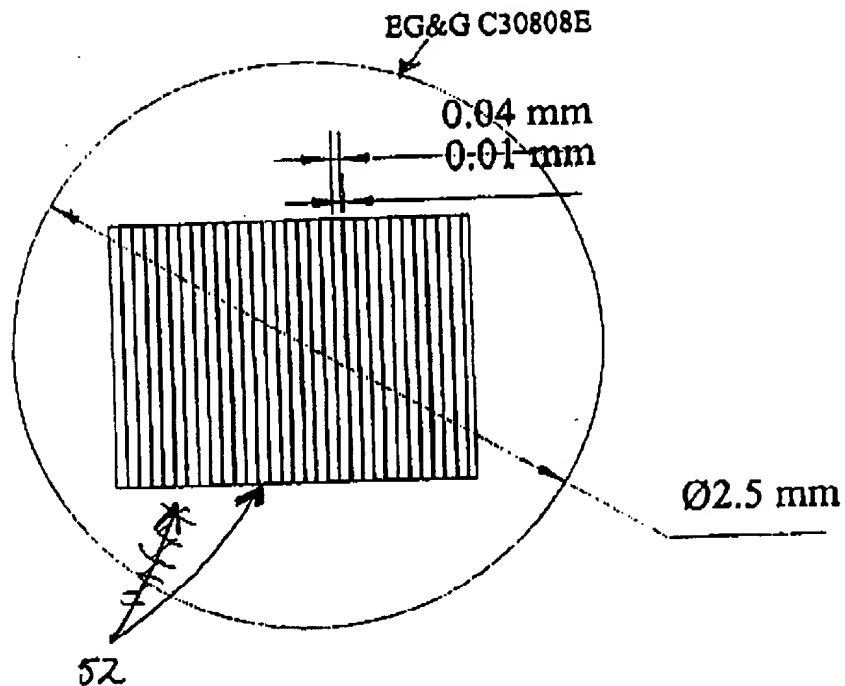
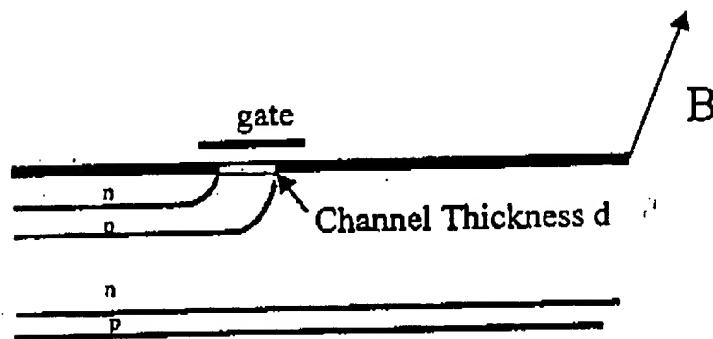


FIG. 6



$$n d = \epsilon_{ox} \cdot (E_{ox}) / e \approx 10^{16} \cdot 10^{-4}$$

$$@E = 1.5 \text{ MV/cm, } \epsilon = 2$$

$$I = J d = 0.3 \text{ A/cm} @ V_d = 10^6 \text{ cm/s}$$

FIG. 7



DAC

PATENT

#7

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Filed: January 14, 2000

Attorney Docket No.: APTI:027

For: ISOLATED CONTROL APPARATUS INCORPORATING LIGHT CONTROLLED POWER  
SEMICONDUCTORS

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I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED  
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ALEXANDRIA, VA 22313-1450:

DATE: 01/21/05

BY: [Signature]

MARC A. ROSSI

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FEB 01 2005

**OFFICE OF PETITIONS**

MS: PETITIONS  
COMMISSIONER FOR PATENTS  
P.O. BOX 1450  
ALEXANDRIA, VA 22313-1450

**SECOND PETITION TO REVIVE ABANDONED APPLICATION**

Sir:

Applicant hereby petitions to revive the above-identified application from abandonment under 37 C.F.R. 1.137(a), as the abandonment was unavoidable on the part of the applicant. In the event that the Commissioner determines the facts presented do not support the withdrawal of abandonment as being unavoidable, however, then applicants petition to revive based on 37 C.F.R. 1.137(b) as being unintentional. The Commissioner is hereby authorized to charge the required petition fee to Deposit Account 18-2056 along with any additional fees that may be required to maintain the pendency of this application upon entry of this petition.



REMARKS

1. On January 17, 2003, applicant submitted a Response to Notice of Abandonment and/or Petition to Revive Abandoned Application (hereinafter "Response to Notice of Abandonment") in response to a Notice of Abandonment that was issued in the above referenced application.

2. Having failed to receive any reply to the Response to Notice of Abandonment, the undersigned attorney of record contacted the examiner by telephone in August of 2003.

3. The examiner indicated that the Response to Notice of Abandonment had not been received by the Office.

4. The undersigned attorney indicated to the examiner that he was in possession of a record from the United States Postal Service indicating receipt of the Response to Notice of Abandonment.

5. The examiner requested that the undersigned attorney of record send another copy of the Response to Notice of Abandonment to the examiner by facsimile with evidence of the filing.

6. On August 13, 2003, the undersigned attorney of record forwarded the documents requested by the examiner including: 1.) USPS receipt evidencing deliver of express package to PTO; 2.) Copy of Response to Notice of Abandonment; 3.) Copy of Docket Book entry submitted with response; 4.) Copy of amendment filed on November 20, 2002; and 5.) Copy of Letter to Draftsman filed on November 12, 2002.

7. Enclosed herewith is a duplicate copy of the papers transmitted to the examiner by facsimile including a facsimile cover sheet. These documents have been stapled together and labeled as "Document A". A copy of an Auto-Reply Facsimile Transmission (labeled "Document B") is also enclosed herewith evidencing receipt of the facsimile transmission.

8. Having failed to received any response to either the original filing or the subsequent duplicate transmission to the examiner, the undersigned attorney of record attempted to contact the Supervisory Patent Examiner by telephone to determine the status of this application. Telephone calls were placed to the Group Art Unit in April of 2004 and December of 2004, but no response to the telephone inquires has been received to date.

9. In view of the above, applicant requests this petition be expedited. The facts surrounding the improper abandonment are set forth in the documents previously submitted and now labeled as Document A. Applicant properly filed a response to the Office Action that was apparently not received by the Patent Office due to circumstances beyond control of the applicant. Applicant therefore submits the abandonment was unavoidable.

10. In the event that a finding should be made that the abandonment was not unavoidable, then applicant hereby petitions on the basis on the abandonment being unintentional.

11. Due to the problems with this application and with the Office acknowledging receipt of and acting upon documents filed by applicant, it is specifically requested that the undersigned attorney of record be notified by telephone that this second petition has been received and will be properly acted upon.

12. The Commissioner is authorized to charge Deposit Account 18-2056 the petition fee and any additional fees that may be required to reinstate this application.

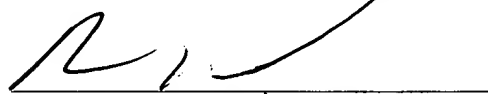
SN. 09/484,376

ATTORNEY DOCKET NO. APTI:027

13. Any questions regarding this petition should be addressed to the undersigned attorney of record at 702-726-6020.

Respectfully submitted,

ROSSI, KIMMS & McDOWELL LLP



Marc A. Rossi, Reg. No. 31,923

01/21/05  
Date

ROSSI, KIMMS & McDOWELL LLP  
P.O. Box 826  
Ashburn, VA 20146-0826

TO: Auto-reply fax to 17037266024 COMPANY:

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Oved ZUCKER

Serial No.: 09/484,376

Group Art Unit: 2876

Filed: January 14, 2000

Examiner: LEE, Diana

For: ISOLATED CONTROL APPARATUS INCORPORATING  
LIGHT CONTROLLED POWER SEMICONDUCTORS

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2. Copy of response to Notice of Abandonment filed 1/17/03 4 Pages
3. Copy of docket book entry submitted with response 1 Page
4. Copy of amendment filed with USPTO on 11/20/02 9 Pages
5. Copy of Letter to Draftsman filed on 11/20/02 2 Pages

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Best regards,

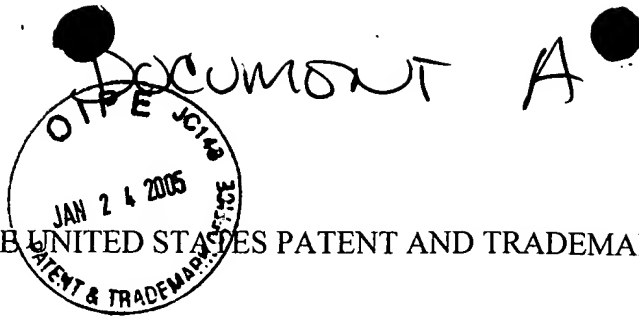
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Group Art Unit: 2876

Filed: January 14, 2000

Examiner: LEE, Diane

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Best regards,

M. Rossi



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